**Erratum: Gauged twistor formulation of a massive spinning
particle in four dimensions
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We correct errors in Eqs. (3.6a), (3.6b), (3.9a), (3.9b), (3.10a), and (3.10b). No results presented in the paper are affected by the corrections.

Equations (3.6a) and (3.6b) should read, respectively, as

$$\{\phi_A^i, H_C\} = a\bar{Z}_A^i + b^r \sigma_{rj}^i \bar{Z}_A^j + 2h\epsilon^{ij} I_{AB} Z_j^B, \quad (1a)$$

$$\{\bar{\phi}_i^A, H_C\} = aZ_i^A + b^r \sigma_{ri}^j Z_j^A + 2\bar{h}\epsilon_{ij} I^{AB} \bar{Z}_B^j, \quad (1b)$$

where I_{AB} and I^{AB} are the so-called infinity twistors [1, 2, 8], defined by

$$I_{AB} := \begin{pmatrix} 0 & 0 \\ 0 & \epsilon^{\dot{\alpha}\dot{\beta}} \end{pmatrix}, \quad I^{AB} := \begin{pmatrix} \epsilon^{\alpha\beta} & 0 \\ 0 & 0 \end{pmatrix}.$$

Accordingly, Eqs. (3.9a) and (3.9b) should read, respectively, as

$$\dot{\phi}_A^i = \{\phi_A^i, H_T\} \approx a\bar{Z}_A^i + b^r \sigma_{rj}^i \bar{Z}_A^j + 2h\epsilon^{ij} I_{AB} Z_j^B - i\bar{u}_A^i \approx 0, \quad (2a)$$

$$\dot{\bar{\phi}}_i^A = \{\bar{\phi}_i^A, H_T\} \approx aZ_i^A + b^r \sigma_{ri}^j Z_j^A + 2\bar{h}\epsilon_{ij} I^{AB} \bar{Z}_B^j + iu_i^A \approx 0, \quad (2b)$$

so that Eqs. (3.10a) and (3.10b) should be changed, respectively, to

$$\bar{u}_A^i = -ia\bar{Z}_A^i - ib^r \sigma_{rj}^i \bar{Z}_A^j - 2ih\epsilon^{ij} I_{AB} Z_j^B, \quad (3a)$$

$$u_i^A = iaZ_i^A + ib^r \sigma_{ri}^j Z_j^A + 2i\bar{h}\epsilon_{ij} I^{AB} \bar{Z}_B^j. \quad (3b)$$

The text following Eq. (3.13), “The condition $\dot{\chi}^{(a)} \approx 0$ is identically fulfilled with the aid of Eqs. (3.10a) and (3.10b),” should read “The condition $\dot{\chi}^{(a)} \approx 0$ is identically fulfilled with the aid of Eqs. (3.10a), (3.10b), (3.11e), (3.11f), and (3.11g).”

The text following Eq. (3.14), “by using Eqs. (3.10a), (3.10b), (3.11b), and (3.11c),” should read “by using Eqs. (3.10a), (3.10b), (3.11b), and (3.11c), together with the formulas $\sigma_{rk}^i \epsilon^{kj} = \sigma_{rk}^j \epsilon^{ki}$ and $\sigma_{ri}^k \epsilon_{kj} = \sigma_{rj}^k \epsilon_{ki}$.”